Introduction

Lecture slides for Chapter 1 of *Deep Learning* www.deeplearningbook.org Ian Goodfellow 2016-09-26

Representations Matter



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Depth: Repeated Composition



Computational Graphs



Machine Learning and AI



(Goodfellow 2016)

Learning Multiple Components



Organization of the Book



Historical Waves



Historical Trends: Growing Datasets



The MNIST Dataset



Connections per Neuron



Number of Neurons



Solving Object Recognition

